

Case 284 : Narrative

| | |
|--|----------------------------|
| Case Vehicle (A): 1998 Chrysler | Veh. (B): 2000 Saturn |
| Type: Town & Country LXi, 4-door minivan | Type: SL1, 4-door sedan |
| Driver: 16-year-old female | Driver: 39-year-old female |
| CDC: 12-FLEE-8 | CDC: 10-LYAW-3 |

SITUATION

[1](#) It was daylight, and the sky was cloudy, but the two-lane asphalt road surface was dry and free of defects. [2](#) Case vehicle (A) was traveling south at an unknown speed in the southbound lane, and vehicle (B) was traveling north at an unknown speed in the northbound lane. For an unknown reason, case vehicle (A) crossed the centerline and sideswiped the left side of vehicle (B) with its left front. Case vehicle (A) and vehicle (B) were towed from the scene. The driver of case vehicle (A) was not transported to a medical facility. The driver of vehicle (B) was transported to a level-one trauma facility and was held overnight for observation.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[3](#) Damage to case vehicle (A) was moderate. [4](#) Direct contact damage began at the left-front bumper corner and extended 38 cm to the right, resulting in 29-percent vehicle overlap. The maximum crush was 10 cm to the left-front bumper corner. [5](#) Direct damage extended rearward down the left side to just forward of the B-pillar.

[6](#) Damage to vehicle (B) was severe. [7](#) Direct contact damage began at the left-front bumper corner and [8](#) extended 281-cm rearward to the middle of the left rear door. [9](#) The maximum lateral crush was 21 cm to the lower portion of the left A-pillar. The left-front wheel was broken off and the left wheelbase, measured to the left-front suspension stalk

instead of the center of the wheel, was reduced 13 cm. [10](#) The right wheelbase was increased 5 cm.

Using the WinSMASH crash-reconstruction program and [11](#) [12](#) [13](#) [14](#) c-values measured for case vehicle (A) and [15](#) [16](#) [17](#) [18](#) vehicle (B), the following impact severities were calculated:

| | | Calculated Velocity Change - kph (mph) | | |
|------------------|----------|--|--------------|-------------|
| Vehicle | Variable | Total | Longitudinal | Latitudinal |
| Case Vehicle (A) | delta V | 15 (9) | -14 (-9) | 3 (2) |
| Vehicle (B) | delta V | 27 (17) | -17 (-11) | 20 (13) |

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

In the front, [19](#) the far left portion of the bumper cover was torn off, the left headlight assembly was disintegrated, the left side of the hood was buckled, and the lower fascia and the grille were deformed. [20](#) There was no damage to the hood latch or hood hinges, but the rear edge of the hood was elevated, [21](#) although it did not contact the windshield. The windshield was cracked in the lower left corner due to cowl deformation.

[22](#) On the left side, the front wheel was torn off, [23](#) the sheet metal of the fender and front door were crushed rearward and deflected outward, and the forward portion of the rear door was deformed. The upper section of the A-pillar was deformed, [24](#) the lower sections of the A- and B-pillars were crushed, both left-side doors were jammed closed, and the front door glass was broken out. [25](#) [26](#) The left wheelbase, measured to the center of the left-front suspension arm, showed no significant change.

[27](#) [28](#) There was no right-side damage, but the right wheelbase was decreased 5 cm. Both right-side doors remained closed and operational.

[29](#) There was no damage to the rear of the vehicle.

Interior

This vehicle was equipped with steering-wheel and passenger frontal-impact airbags, and [30 31 32](#) both deployed. [33 34](#) There was no damage to the steering-wheel or [35 36](#) passenger airbag module covers/flaps. [37 38](#) There was no deformation of the steering-wheel rim or spokes. There was no displacement of the steering column. [39](#) The left-front interior door panel was dented outward, the left-front door handle and armrest were deflected outward, and the left-front door window glass was broken out. [40](#) The lower section of the left A-pillar was deformed and deflected to the right, causing the parking brake pedal to be deflected to the right. [41](#) The upper instrument-panel trim around the glove box was knocked loose. The following intrusions were noted and measured:

| Location | Component | Distance (cm) | Direction |
|-------------------------------|----------------|---------------|-----------|
| left front 42 | lower A-pillar | 7 | to right |
| 43 | kick panel | 7 | to right |
| | door | 6 | to right |
| 44 | upper A-pillar | 2 | to right |

[45 46 47 48 49 50](#) There was no other interior damage.

OCCUPANT KINEMATICS AND INJURIES

[51 52](#) The 5-ft, 7-in, 110-lb, 16-year-old female driver was **not** wearing the three-point belt, and there were [53](#) no witness marks on the plastic D-ring. The seat was adjusted to a forward position, and the steering wheel was tilted up.

On impact, the driver moved forward relative to the vehicle interior, into the [54](#) the frontal-impact airbag and knee bolster. The driver sustained a contusion and abrasion to the face, probably from contact by the deploying airbag, or possibly from flying broken glass. She sustained a contusion to the left knee, probably due to contact with the knee bolster. The following table and attached drawing [55](#) summarize the injuries for the driver of case vehicle (A).

| Occupant: Driver | Age: 16 years | Gender: Female | | |
|---|------------------------------|----------------------|--------------|--------------|
| Restraints: 3-point belt <i>not</i> worn; frontal-impact airbag deployed | Stature: 170 cm (5 ft, 7 in) | Mass: 50 kg (110 lb) | | |
| Injury Description | A.I.S. | Injury Source | | |
| — | — | Definite | Probable | Possible |
| | | | | |
| Contusion and abrasion, face | 1 | — | Airbag | Broken glass |
| Contusion, left knee | 1 | — | Knee bolster | — |
| Maximum A.I.S. Level | 1 | — | — | — |
| Injury Severity Score | 1 | — | — | — |

CASE NO.: 244-01

CASE VEHICLE: 1988 Chrysler

TYPE: Town & Country V-6, 4WD minivan

OCCUPANT: Driver: 18-year-old female

STATURE: 178 cm (5 ft, 7 in) MASS: 58 kg (116 lb)

RESTRAINTS: 3-point belt and worn, frontal impact
airbag deployed

SEVERITY: MAIS - 1 : ISS - 1



Case No.: 2004-01

Case Veh.: (A) 1998 Chrysler

Type: Town & Country LXR AWD minivan

Driver: 18-year-old female

Veh.: (B) 2000 Saturn SL I, 4 door sedan

Light Conditions: Daylight

Weather: Cloudy

Road Surface: Dry

Road Construction: Asphalt

Scale: 



Vehicle Report

General

Conditions

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|------------|----------------------|----------------------|
| V206 — Urban/Rural Area | 2 | Rural | more |
| V207 — Limited Access Highway | 0 | No | more |
| V208 — Road Total Lanes | 2 | 2 lanes | more |
| V209 — Intersecting Road Total Lanes | 8 | Not applicable | more |
| V210 — Road Surface Type | 1 | Asphalt | more |
| V211 — Road Defects | 0 | No | more |
| V212 — Construction Zone | 0 | No | more |
| V213 — Road Alignment Vertical Plane | 1 | Level | more |
| V214 — Road Alignment Horizontal Plane | 1 | Straight | more |
| V215 — Surface Covering | 10 | Dry | more |
| V216 — Visibility Limitation | 0 | None | more |
| V217 — Visibility Obstruction | 0 | None | more |
| V218 — Speed Limit | 6 | 86-90 km/h .. 55 mph | more |
| V219 — Precipitation Type | 0 | None | more |
| V220 — Precipitation Rate | 8 | Not applicable | more |
| V221 — Temperature | 9 | Unknown | more |
| V222 — Crosswind | 9 | Unknown | more |
| V223 — Light Conditions | 1 | Daylight | more |
| V224 — Mechanical Malfunction Mention | 0 | No | more |
| V225 — Case Vehicle and Object | 0 | No | more |
| V226 — Case Vehicle Rollover | 0 | No | more |
| V227 — Case Vehicle Ran Off Roadway | 0 | No | more |

| | | | |
|---|----|---------------------------|----------------------|
| V228 — Moving Case Vehicle/Contacted Moving Vehicle | 1 | Yes | more |
| V229 — Case Vehicle/Contacted Stopped Vehicle | 0 | No | more |
| V230 — Stopped Case Vehicle/Contactd Vehicle | 0 | No | more |
| V231 — Total Vehicles Hit By Case Vehicle | 1 | 1 vehicle | more |
| V232 — Any Fire in Crash | 0 | No | more |
| V233 — Max Police Severity-PAR | 3 | A - Incapacitating Injury | more |
| V234 — Driver Alcohol Involvement | 0 | Had not been drinking | more |
| V235 — Driver Alcohol BAC | 80 | Not tested | more |
| V236 — Driver Impairment Mention | 0 | No | more |
| V237 — Driven/Towed From Scene | 2 | Towed Due to Damage | more |

Other Vehicle

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|--------------|---------------------------|----------------------|
| V301 — Other Vehicle VIN | 168ZH5288YZ2 | — | — |
| V302 — Other Vehicle Manufacturer/Body Code | 11827 | — | — |
| V303 — Other Vehicle Manufacturer | 118 | Saturn | more |
| V304 — Other Vehicle Body Code | 27 | Compact 100-104.9 in. wb. | more |
| V305 — Other Vehicle Make/Model | 3705 | Saturn SL1 | more |
| V306 — Other Vehicle Model Year | 2000 | — | — |
| V307 — Other Vehicle Mass | 001078 kg | — | — |
| V308 — Other Vehicle Number | 1 | Vehicle #1 | more |
| V309 — Other Vehicle Number of Occupants | 01 | — | — |
| V310 — Other Vehicle Traveling Speed | 999 | Unknown | more |
| V311 — Highest Police Injury Severity | 3 | A - Incapacitating Injury | more |
| V312 — Other Vehicle Type | 27 | Compact 100-104.9 in. wb. | more |
| V313 — Other Vehicle Wheelbase (cm) | 260 cm | — | — |
| V314 — Average Track Width | 143 cm | — | — |
| V315 — Overall Length | 452 cm | — | — |
| V316 — Overall Width (OAW) | 169 cm | — | — |
| V317 — Front Overhang (FOH) | 099 cm | — | — |
| V318 — Rear Overhang (ROH) | 094 cm | — | — |
| V319 — Undeformed End Width (UEW) | 124 cm | — | — |
| V320 — Engine Displacement | 1.9 l | — | — |
| V321 — Engine: Number of Cylinders | 04 | — | — |
| V322 — Direct Damage Length (DDL) | 999 | Unknown | more |
| V323 — Front-End Overlap % (FEO) | 99 | Missing or Not applicable | more |
| V324 — Vehicle Overlap % (VOL) | 99 | Missing or Not applicable | more |

Case Vehicle

General

| Variable Number and Name | Code Value | Code Description | Other Options |
|---------------------------------------|--------------|-------------------------|----------------------|
| V401 — VIN | 1C4GT64L1WB6 | — | — |
| V402 — Manufacturer/Body Code | 13111 | — | — |
| V403 — Vehicle Manufacturer | 131 | Chrysler | more |
| V404 — Vehicle Body Code | 11 | — | — |
| V405 — Make/Model Code | 1261 | Town and Country | more |
| V406 — Model Year | 1998 | — | — |
| V407 — Vehicle Mass | 002022 kg | — | — |
| V408 — Odometer Reading | 888888 | — | — |
| V409 — Number of Occupants | 01 | — | — |
| V410 — Traveling Speed | 999 | Unknown | more |
| V411 — Body Type | 24 | Van (small) | more |
| V412 — Stolen Vehicle | 8 | Not currently collected | more |
| V413 — Body Structure | 2 | Unitized | more |
| V414 — Transmission Type | 1 | Automatic | more |
| V415 — Transmission Lever Location | 3 | Column | more |
| V416 — Steering | 1 | Power | more |
| V417 — Brakes | 1 | Power | more |
| V418 — Brake Type | 2 | Disc - front wheels | more |
| V419 — Brake Anti-lock Device | 2 | Four-wheel | more |
| V420 — Air Conditioning in Vehicle | 8 | Not currently collected | more |
| V421 — Drive Type | 4 | All wheel drive | more |
| V422 — Dual Rear Wheels | 0 | No | more |
| V423 — Original Restraint System Type | 3 | Airbag | more |

| | | | |
|------------------------------------|--------------|-------|----------------------|
| V424 — Equipped With Roll Bar | 0 | No | more |
| V425 — Roof Type | 1 | Solid | more |
| V426 — Wheelbase | 303 cm | — | — |
| V427 — Anti-lacerative Glass | 0 | None | more |
| V428 — Average Track Width | 161 cm | — | — |
| V429 — Overall Length | 507 cm | — | — |
| V430 — Overall Width (OAW) | 195 cm | — | — |
| V431 — Front Overhang | 092 cm | — | — |
| V432 — Rear Overhang | 112 cm | — | — |
| V433 — Undeformed End Width (UEW) | 158 cm | — | — |
| V434 — Engine Displacement | 3.8 <i>l</i> | — | — |
| V435 — Engine: Number of Cylinders | 06 | — | — |
| V436 — Direct Damage Length (DDL) | 038 cm | — | — |
| V437 — Front End Overlap % (FEO) | 24 | — | — |
| V438 — Vehicle Overlap % (VOL) | 29 | — | — |

Case Vehicle

Damage

Description

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|------------|---|----------------------|
| V501 — Maximum Crush - Front | 010 cm | — | — |
| V502 — Maximum Crush - Right Side | 000 cm | No crush (or less than 1 cm.) | more |
| V503 — Maximum Crush - Rear | 000 cm | No crush (or less than 1 cm.) | more |
| V504 — Maximum Crush - Left Side | 000 cm | No crush (or less than 1 cm.) | more |
| V505 — Maximum Crush - Roof | 000 cm | No crush (or less than 1 cm.) | more |
| V506 — Maximum Crush - Other | 000 cm | No crush (or less than 1 cm.) | more |
| V507 — Are Events In Chronological Order | 1 | Yes | more |
| V508 — Event 1 Impact Location | 1 | On Roadway | more |
| V509 — Event 1 Impact Configuration | 13 | FRONT of case veh - SIDE of contacted Vehicle | more |
| V510 — Event 1 Object/Vehicle Contacted | 27 | Compact 100-104.9 in. wb. | more |
| V511 — Event 2 Impact Location | 8 | No 2nd event | more |
| V512 — Event 2 Impact Configuration | 88 | No 2nd event | more |
| V513 — Event 2 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V514 — Event 3 Impact Location | 8 | No 3rd event | more |
| V515 — Event 3 Impact Configuration | 88 | No 3rd event | more |
| V516 — Event 3 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V517 — Event 4 Impact Location | 8 | No 4th event | more |
| V518 — Event 4 Impact Configuration | 88 | No 4th event | more |
| V519 — Event 4 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V520 — Event 5 Impact Location | 8 | No 5th event | more |
| V521 — Event 5 Impact Configuration | 88 | No 5th event | more |
| V522 — Event 5 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V523 — Event 6 Impact Location | 8 | No 6th event | more |

| | | | |
|---|-------------|--|----------------------|
| V524 — Event 6 Impact Configuration | 88 | No 6th event | more |
| V525 — Event 6 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V526 — Event 7 Impact On Road | 8 | No 7th event | more |
| V527 — Event 7 Impact Configuration | 88 | No 7th event | more |
| V528 — Event 7 Object/Vehicle Contacted | 00 | No object/vehicle contacted | more |
| V529 — Primary CDC Case Vehicle -event Number | 1 | Event 1 | more |
| V530 — Primary CDC Case Vehicle - impact speed | 999 | Unknown | more |
| V531 — Primary CDC Case Vehicle - Estimated By | 1 | Investigator | more |
| V532 — Primary CDC Case Vehicle -crush | 010 | — | — |
| V533 — Primary CDC Case Vehicle -clock #1 | 12 | 12 o'clock | more |
| V534 — Primary CDC Case Vehicle letter 1 #1 | 06 | F - Front | more |
| V535 — Primary CDC Case Vehicle letter 2 #1 | 12 | L - Left (Front or Rear) | more |
| V536 — Primary CDC Case Vehicle letter 3 #1 | 05 | E - Everything below belt line | more |
| V537 — Primary CDC Case Vehicle letter 4 #1 | 05 | E - Corner (extends from corner to = or < 16 in [410mm]) | more |
| V538 — Primary CDC Case Vehicle Extent #1 | 08 | Extent 8 | more |
| V539 — Primary CDC Case Vehicle -CDC #1 | 12FLEE 8 | — | — |
| V541 — Primary CDC Case Vehicle letter 1 #2 | 00 | Missing Data/Not applicable | more |
| V542 — Primary CDC Case Vehicle letter 2 #2 | 00 | Missing Data/Not applicable | more |
| V543 — Primary CDC Case Vehicle letter 3 #2 | 00 | Missing Data/Not applicable | more |
| V544 — Primary CDC Case Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | more |
| V545 — Primary CDC Case Vehicle Extent #2 | 00 | Missing Data/Not applicable | more |
| V546 — Primary CDC Case Vehicle -CDC #2 | 9800000 | — | — |
| V547 — Primary CDC Contacted Vehicle - Impact Speed | 999 | Unknown | more |
| V548 — Primary CDC Contacted Vehicle - Estimated By | 1 | Investigator | more |
| V549 — Primary CDC Contacted Vehicle -crush | 022 | — | — |
| V550 — Primary CDC Contacted Vehicle -clock #1 | 10 | 10 o'clock | more |

| | | | |
|--|-------------|---|----------------------|
| V551 — Primary CDC Contacted Vehicle letter 1 #1 | 12 | L - Left Side | more |
| V552 — Primary CDC Contacted Vehicle letter 2 #1 | 25 | Y - Side or end (F + P or L + C) | more |
| V553 — Primary CDC Contacted Vehicle letter 3 #1 | 01 | A - All or Top of vehicle to bottom of vehicle exclusive of | more |
| V554 — Primary CDC Contacted Vehicle letter 4 #1 | 23 | W - Wide impact area | more |
| V555 — Primary CDC Contacted Vehicle Extent #1 | 03 | Extent 3 | more |
| V556 — Primary CDC Contacted Vehicle -CDC #1 | 10LYAW 3 | — | — |
| V558 — Primary CDC Contacted Vehicle letter 1 #2 | 00 | Missing Data/Not applicable | more |
| V559 — Primary CDC Contacted Vehicle letter 2 #2 | 00 | Missing Data/Not applicable | more |
| V560 — Primary CDC Contacted Vehicle letter 3 #2 | 00 | Missing Data/Not applicable | more |
| V561 — Primary CDC Contacted Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | more |
| V562 — Primary CDC Contacted Vehicle Extent #2 | 00 | Missing Data/Not applicable | more |
| V563 — Primary CDC Contacted Vehicle -CDC #2 | 9800000 | — | — |
| V564 — Secondary CDC Case Vehicle - Event No | 8 | Not applicable | more |
| V565 — Secondary CDC Case Vehicle - Impact Speed | 998 | Not Applicable | more |
| V566 — Secondary CDC Case Vehicle - Estimated By | 8 | Not applicable (no vehicle/no impact) | more |
| V567 — Secondary CDC Case Vehicle -crush | 998 | Not Applicable | more |
| V568 — Secondary CDC Case Vehicle -clock #1 | 98 | Not Applicable | more |
| V569 — Secondary CDC Case Vehicle letter 1 #1 | 00 | Missing Data/Not applicable | more |
| V570 — Secondary CDC Case Vehicle letter 2 #1 | 00 | Missing Data/Not applicable | more |
| V571 — Secondary CDC Case Vehicle letter 3 #1 | 00 | Missing Data/Not applicable | more |
| V572 — Secondary CDC Case Vehicle letter 4 #1 | 00 | Missing Data/Not applicable | more |
| V573 — Secondary CDC Case Vehicle Extent #1 | 00 | Missing Data/Not applicable | more |
| V574 — Secondary CDC Case Vehicle -CDC #1 | 9800000 | — | — |
| V576 — Secondary CDC Case Vehicle letter 1 #2 | 00 | Missing Data/Not applicable | more |
| V577 — Secondary CDC Case Vehicle letter 2 #2 | 00 | Missing Data/Not applicable | more |
| V578 — Secondary CDC Case Vehicle letter 3 #2 | 00 | Missing Data/Not applicable | more |

| | | | |
|---|---------|---------------------------------------|----------------------|
| V579 — Secondary CDC Case Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | more |
| V580 — Secondary CDC Case Vehicle Extent #2 | 00 | Missing Data/Not applicable | more |
| V581 — Secondary CDC Case Vehicle -CDC #2 | 9800000 | — | — |
| V582 — Secondary CDC Contacted Vehicle - Impact Speed | 998 | Not Applicable | more |
| V583 — Secondary CDC Contacted Vehicle - Estimated By | 8 | Not applicable (no vehicle/no impact) | more |
| V584 — Secondary CDC Contacted Vehicle -crush | 998 | Not Applicable | more |
| V585 — Secondary CDC Contacted Vehicle -clock #1 | 98 | Not Applicable | more |
| V586 — Secondary CDC Contacted Vehicle letter 1 #1 | 00 | Missing Data/Not applicable | more |
| V587 — Secondary CDC Contacted Vehicle letter 2 #1 | 00 | Missing Data/Not applicable | more |
| V588 — Secondary CDC Contacted Vehicle letter 3 #1 | 00 | Missing Data/Not applicable | more |
| V589 — Secondary CDC Contacted Vehicle letter 4 #1 | 00 | Missing Data/Not applicable | more |
| V590 — Secondary CDC Contacted Vehicle Extent #1 | 00 | Missing Data/Not applicable | more |
| V591 — Secondary CDC Contacted Vehicle -CDC #1 | 9800000 | — | — |
| V593 — Secondary CDC Contacted Vehicle letter 1 #2 | 00 | Missing Data/Not applicable | more |
| V594 — Secondary CDC Contacted Vehicle letter 2 #2 | 00 | Missing Data/Not applicable | more |
| V595 — Secondary CDC Contacted Vehicle letter 3 #2 | 00 | Missing Data/Not applicable | more |
| V596 — Secondary CDC Contacted Vehicle letter 4 #2 | 00 | Missing Data/Not applicable | more |
| V597 — Secondary CDC Contacted Vehicle Extent #2 | 00 | Missing Data/Not applicable | more |
| V598 — Secondary CDC Contacted Vehicle -CDC #2 | 9800000 | — | — |

Crash Severity

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|------------|--|----------------------|
| V601 — Case Vehicle Primary Impact Number | 1 | — | — |
| V602 — Primary Impact Total Delta-V | 015 kph | — | — |
| V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V | -014 kph | — | — |
| V604 — Primary Case Vehicle Reconstructed Lateral Delta-V | 0003 kph | — | — |
| V605 — Primary Case Vehicle Reconstructed Crush Energy | 0014 kJ | — | — |
| V606 — Primary Impact Case Vehicle -reconstruction | 22 | Reconstructed, moderate confidence level | more |
| V607 — Primary Case Vehicle Reconstruction Mode | 2 | CDC & detailed damage | more |
| V608 — Primary Contacted Vehicle Reconstructed Total Delta-V | 027 kph | — | — |
| V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V | -017 kph | — | — |
| V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V | 0020 kph | — | — |
| V611 — Primary Contacted Vehicle Reconstructed Crush Energy | 0034 kJ | — | — |
| V612 — Case Vehicle Secondary Impact Number | 8 | — | — |
| V613 — Secondary Case Vehicle Reconstructed Total Delta-V | 888 | N/A | more |
| V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V | 8888 | — | — |
| V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V | 8888 | — | — |
| V616 — Secondary Case Vehicle Reconstructed Crush Energy | 8888 | — | — |
| V617 — Secondary Case Vehicle Reconstruction Note | 88 | — | — |
| V618 — Secondary Case Vehicle Reconstruction Mode | 8 | Not applicable | more |
| V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V | 888 | N/A | more |

| | | | |
|---|----------|--|----------------------|
| V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V | 8888 | — | — |
| V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V | 8888 | — | — |
| V622 — Secondary Contacted Vehicle Reconstructed Crush Energy | 8888 | — | — |
| V623 — Case Vehicle Primary Impact Number | 1 | — | — |
| V624 — Primary Case Vehicle Reconstructed Total EBS | 013 kph | — | — |
| V625 — Primary Case Vehicle Reconstructed Longitudinal EBS | -013 kph | — | — |
| V626 — Primary Case Vehicle Reconstructed Lateral EBS | 0002 kph | — | — |
| V627 — Primary Case Vehicle Reconstructed Crush Energy | 0013 kJ | — | — |
| V628 — Primary Case Vehicle Reconstruction Note | 22 | Reconstructed, moderate confidence level | more |
| V629 — Primary Case Vehicle Reconstruction Mode | 2 | CDC & detailed damage | more |
| V630 — Primary Contacted Vehicle Reconstruction Total EBS | 033 kph | — | — |
| V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS | -021 kph | — | — |
| V632 — Primary Contacted Vehicle Reconstruction Lateral EBS | 0025 kph | — | — |
| V633 — Primary Contacted Vehicle Reconstruction Crush Energy | 0034 kJ | — | — |
| V634 — Case Vehicle Secondary Impact Number | 8 | Not applicable | more |
| V635 — Secondary Case Vehicle Reconstruction Total EBS | 888 | N/A | more |
| V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS | 8888 | — | — |
| V637 — Secondary Case Vehicle Reconstruction Lateral EBS | 8888 | — | — |
| V638 — Secondary Case Vehicle Reconstruction Crush Energy | 8888 | — | — |
| V639 — Secondary Case Vehicle Reconstruction Note | 88 | — | — |
| V640 — Secondary Case Vehicle Reconstruction Mode | 8 | Not applicable | more |
| V641 — Secondary Contacted Vehicle Reconstruction Total EBS | 888 | N/A | more |
| V642 — Secondary Contacted Vehicle Reconstruction | 8888 | — | — |

| | | | |
|--|---------|------------|----------------------|
| Longitudinal EBS | | | |
| V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS | 8888 | — | — |
| V644 — Secondary Contacted Vehicle Reconstruction Crush Energy | 8888 | — | — |
| V645 — Case Vehicle Reconstructed Impact Number | 1 | — | — |
| V646 — Case Vehicle Impact 1 Plane | 1 | Bumper | more |
| V647 — Case Vehicle Impact 1 Direct Damage Length [DDL] | 038 cm | — | — |
| V648 — Case Vehicle Impact 1 Max Crush | 010 cm | — | — |
| V649 — Case Vehicle Impact 1 Field-L | 134 cm | — | — |
| V650 — Case Vehicle Impact 1 C1 | 010 cm | — | — |
| V651 — Case Vehicle Impact 1 C2 | 003 cm | — | — |
| V652 — Case Vehicle Impact 1 C3 | 001 cm | — | — |
| V653 — Case Vehicle Impact 1 C4 | 001 cm | — | — |
| V654 — Case Vehicle Impact 1 C5 | 003 cm | — | — |
| V655 — Case Vehicle Impact 1 C6 | 000 cm | No Crush | more |
| V656 — Case Vehicle Impact 1 +/- D | -060 cm | — | — |
| V657 — Case Vehicle Reconstructed Impact Number | 1 | — | — |
| V658 — Case Vehicle Impact 2 Plane | 4 | Above sill | more |
| V659 — Case Vehicle Impact 2 Direct Damage Length [DDL] | 281 cm | — | — |
| V660 — Case Vehicle Impact 2 Max Crush | 021 cm | — | — |
| V661 — Case Vehicle Impact 2 Field-L | 293 cm | — | — |
| V662 — Case Vehicle Impact 2 C1 | 003 cm | — | — |
| V663 — Case Vehicle Impact 2 C2 | 004 cm | — | — |
| V664 — Case Vehicle Impact 2 C3 | 005 cm | — | — |
| V665 — Case Vehicle Impact 2 C4 | 021 cm | — | — |
| V666 — Case Vehicle Impact 2 C5 | 020 cm | — | — |
| V667 — Case Vehicle Impact 2 C6 | 005 cm | — | — |
| V668 — Case Vehicle Impact 2 +/- D | 0067 cm | — | — |
| V669 — Other Vehicle Reconstructed Impact Number | 2 | — | — |

| | | | |
|--|------|----------------|----------------------|
| V670 — Other Vehicle Impact 1 Plane | 8 | Not applicable | more |
| V671 — Other Vehicle Impact 1 Direct Damage Length [DDL] | 998 | Not applicable | more |
| V672 — Other Vehicle Impact 1 Max Crush | 998 | Not applicable | more |
| V673 — Other Vehicle Impact 1 Field-L | 998 | Not applicable | more |
| V674 — Other Vehicle Impact 1 C1 | 998 | Not applicable | more |
| V675 — Other Vehicle Impact 1 C2 | 998 | Not applicable | more |
| V676 — Other Vehicle Impact 1 C3 | 998 | Not applicable | more |
| V677 — Other Vehicle Impact 1 C4 | 998 | Not applicable | more |
| V678 — Other Vehicle Impact 1 C5 | 998 | Not applicable | more |
| V679 — Other Vehicle Impact 1 C6 | 998 | Not applicable | more |
| V680 — Other Vehicle Impact 1 +/- D | 9998 | — | — |
| V681 — Other Vehicle Reconstructed Impact Number | 2 | — | — |
| V682 — Other Vehicle Impact 2 Plane | 8 | Not applicable | more |
| V683 — Other Vehicle Impact 2 Direct Damage Length [DDL] | 998 | Not applicable | more |
| V684 — Other Vehicle Impact 2 Max Crush | 998 | Not applicable | more |
| V685 — Other Vehicle Impact 2 Field-L | 998 | Not applicable | more |
| V686 — Other Vehicle Impact 2 C1 | 998 | Not applicable | more |
| V687 — Other Vehicle Impact 2 C2 | 998 | Not applicable | more |
| V688 — Other Vehicle Impact 2 C3 | 998 | Not applicable | more |
| V689 — Other Vehicle Impact 2 C4 | 998 | Not applicable | more |
| V690 — Other Vehicle Impact 2 C5 | 998 | Not applicable | more |
| V691 — Other Vehicle Impact 2 C6 | 998 | Not applicable | more |
| V692 — Other Vehicle Impact 2 +/- D | 9998 | — | — |

Case Vehicle

Tires & Rims

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|------------|------------------|----------------------|
| V701 — Left Front Wheel Damaged | 1 | Yes | more |
| V702 — Right Front Wheel Damaged | 0 | No | more |
| V703 — Right Rear Wheel Damaged | 0 | No | more |
| V704 — Left Rear Wheel Damaged | 0 | No | more |
| V705 — Left Front Tire Tread Type | 4 | All Weather | more |
| V706 — Right Front Tire Tread Type | 4 | All Weather | more |
| V707 — Right Rear Tire Tread Type | 4 | All Weather | more |
| V708 — Left Rear Tire Tread Type | 4 | All Weather | more |
| V709 — Left Front Carcass Construction | 3 | Radial | more |
| V710 — Right Front Carcass Construction | 3 | Radial | more |
| V711 — Right Rear Carcass Construction | 3 | Radial | more |
| V712 — Left Rear Carcass Construction | 3 | Radial | more |
| V717 — Left Front Tire Size | 9999999999 | — | — |
| V718 — Right Front Tire Size | P22560R16 | — | — |
| V719 — Right Rear Tire Size | P22560R16 | — | — |
| V720 — Left Rear Tire Size | P22560R16 | — | — |

Case Vehicle

Fuel, Tank, Fire

| Variable Number and Name | Code Value | Code Description | Other Options |
|------------------------------------|------------|---|----------------------|
| V801 — Propulsive Fuel Type | 1 | Gasoline | more |
| V802 — Main Tank Location | 322 | Within frame/centered laterally - within vertically | more |
| V803 — Main Filler Cap Location | 313 | Left of frame laterally - above vertically | more |
| V804 — Main Tank Material | 3 | Plastic | more |
| V805 — Aux Tank Type | 8 | Not applicable (not equipped) | more |
| V806 — Aux Tank Location | 888 | Not applicable (not equipped) | more |
| V807 — Aux Filler Cap Location | 888 | Not applicable (not equipped) | more |
| V808 — Aux Tank Material | 8 | Not applicable | more |
| V901 — Fuel Leakage From Crash | 0 | No | more |
| V1001 — Fire In Or On Case Vehicle | 0 | No | more |

Case Vehicle

Exterior

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|------------|---------------------------|----------------------|
| V1101 — Hood Latch Released | 0 | No | more |
| V1102 — Hood Latch Damaged | 0 | No | more |
| V1103 — Hood Latch Jammed | 8 | Not applicable | more |
| V1104 — Left Hood Hinge Damaged | 0 | No | more |
| V1105 — Left Hood Hinge Separated | 8 | Not applicable | more |
| V1106 — Right Hood Hinge Damaged | 0 | No | more |
| V1107 — Right Hood Hinge Separated | 8 | Not applicable | more |
| V1108 — Hood Remained On Vehicle | 1 | Yes | more |
| V1109 — Rear Hood Edge Elevated | 1 | Yes | more |
| V1110 — Edge Contacted Windshield | 0 | No | more |
| V1111 — Edge Penetrated Windshield | 8 | Not applicable | more |
| V1112 — Hood Latch Location | 1 | Front of Vehicle | more |
| V1113 — Eng/Transmissn Mount Separation | 0 | No | more |
| V1114 — Steerng Column Flex Coupling | 9 | Unknown if equipped | more |
| V1115 — Steerng Column Coupling Damaged | 9 | Unknown | more |
| V1116 — Steerng Column Coupling Separated | 9 | Unknown | more |
| V1117 — Eng Comp Telescopng Unit | 88 | Not collected | more |
| V1118 — Comp Orig/Telescopd Diff | 888 | Not collected | more |
| V1119 — Left Side Body Mount Separation | 8 | Not applicable (unitized) | more |

| | | | |
|--|---|---------------------------------------|----------------------|
| V1120 — Upper Left A-pillar Separation | 4 | No separation, but damaged | more |
| V1121 — Lower Left A-pillar Separation | 4 | No separation, but damaged | more |
| V1122 — Upper Left B-pillar Separation | 0 | No | more |
| V1123 — Lower Left B-pillar Separation | 4 | No separation, but damaged | more |
| V1124 — Upper Left C-pillar Separation | 0 | No | more |
| V1125 — Lower Left C-pillar Separation | 0 | No | more |
| V1126 — Upper Left D-pillar Separation | 0 | No | more |
| V1127 — Lower Left D-pillar Separation | 0 | No | more |
| V1128 — Left Front Door Opening Cause | 0 | Door did not open | more |
| V1129 — Left Rear Door Opening Cause | 0 | Door did not open | more |
| V1130 — Left Front Door Jammed Closed | 1 | Yes | more |
| V1131 — Left Rear Door Jammed Closed | 1 | Yes | more |
| V1132 — Rear Door Type | 2 | One-way tailgate | more |
| V1133 — Rear Door Opening Cause | 0 | Door did not open | more |
| V1134 — Rear Door Jammed Closed | 0 | No | more |
| V1135 — Luggage Partition Damagd | 8 | Not applicable | more |
| V1136 — Spare Tire Status | 8 | Not collected | more |
| V1137 — Trailer Hitch Type | 3 | Bumper and frame (but non-equalizing) | more |
| V1138 — Trailer Type | 0 | No trailer | more |
| V1139 — Right Side Body Mount Separation | 8 | Not applicable (unitized) | more |
| V1140 — Upper Right A-pillar Separation | 0 | No | more |
| V1141 — Lower Right A-pillar Separation | 0 | No | more |

| | | | |
|--|----|----------------------------|----------------------|
| V1142 — Upper Right B-pillar Separation | 0 | No | more |
| V1143 — Lower Right B-pillar Separation | 0 | No | more |
| V1144 — Upper Right C-pillar Separation | 0 | No | more |
| V1145 — Lower Right C-pillar Separation | 0 | No | more |
| V1146 — Upper Right D-pillar Separation | 0 | No | more |
| V1147 — Lower Right D-pillar Separation | 0 | No | more |
| V1148 — Right Front Door Opening Cause | 00 | Door did not open | more |
| V1149 — Right Rear Door Opening Cause | 00 | Door did not open | more |
| V1150 — Right Front Door Jammed Closed | 0 | No | more |
| V1151 — Right Rear Door Jammed Closed | 0 | No | more |
| V1152 — Van Rear Door Type | 1 | Track (sliding)-right side | more |
| V1153 — Windshield Cracked | 1 | Yes | more |
| V1154 — Windshield Broken | 0 | No | more |
| V1155 — Windshield Cracked or Broken by Occupant | 0 | No | more |
| V1156 — Bond Separation Extent | 0 | None | more |
| V1157 — Windshield Code | MA | — | — |
| V1158 — Did Sun/T Roof Open | 8 | Not Applicable | more |

Case Vehicle

Steering

Column/Rim

| Variable Number and Name | Code Value | Code Description | Other Options |
|---|------------|----------------------|----------------------|
| V1201 — Steering Wheel Rim Damage | 0 | None | more |
| V1202 — Number of Steering Wheel Spokes | 3 | 3 spokes | more |
| V1203 — Steering Wheel Spoke Damage | 0 | None | more |
| V1204 — Column Tilt Feature | 2 | Up | more |
| V1205 — Column Swing-away Feature | 0 | Not equipped | more |
| V1206 — Column Telescoping Feature | 0 | Not equipped | more |
| V1207 — Wheel Energy Absorb Device | 8 | Not collected | more |
| V1208 — Wheel Ea Orig/Damaged Diff | 888 | Not collected | more |
| V1209 — Column Energy Absorb Device | 88 | Not collected | more |
| V1210 — Column Ea Orig/Comprss Diff | 888 | Not collected | more |
| V1211 — Shear Capsule Separation | 888 | Not collected | more |
| V1212 — Column Vertical Rotation | 0 | No apparent rotation | more |
| V1213 — Column Lateral Rotation | 0 | No apparent rotation | more |
| V1214 — Steering Wheel Hub Damage | 0 | None | more |

Case Vehicle Intrusion

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|------------|---------------------------------|----------------------|
| V1301 — Occupant Compartment Intrusion | 1 | Yes | more |
| V1302 — Was Intrusion Catastrophic | 0 | No | more |
| V1303 — Intrusion Number 01 | 01 | Intrusion #1 | more |
| V1304 — Intrusion 01 Occupant Space Number | 11 | First row, Left seat | more |
| V1305 — Intrusion 01 Intruding Object | 08 | A-pillar | more |
| V1306 — Intrusion 01 Assoc Event Number | 1 | Event #1 | more |
| V1307 — Intrusion 01 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1308 — Intrusion 01 Max Intrusion Y-axis | 07 cm | — | — |
| V1309 — Intrusion 01 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1310 — Intrusion 01 Occupant Number | 00 | No contact or no intrusion | more |
| V1311 — Intrusion 01 Injury Number | 00 | No injury or no intrusion | more |
| V1312 — Intrusion 01 Occupant Number | 00 | No contact or no intrusion | more |
| V1313 — Intrusion 01 Injury Number | 00 | No injury or no intrusion | more |
| V1314 — Intrusion Number 02 | 02 | Intrusion #2 | more |
| V1315 — Intrusion 02 Occupant Space Number | 11 | First row, Left seat | more |
| V1316 — Intrusion 02 Intruding Object | 29 | Side footwell panel (kickpanel) | more |
| V1317 — Intrusion 02 Assoc Event Number | 1 | Event #1 | more |
| V1318 — Intrusion 02 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1319 — Intrusion 02 Max Intrusion Y-axis | 07 cm | — | — |
| V1320 — Intrusion 02 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1321 — Intrusion 02 Occupant Number | 00 | No contact or no intrusion | more |
| V1322 — Intrusion 02 Injury Number | 00 | No injury or no intrusion | more |
| V1323 — Intrusion 02 Occupant Number | 00 | No contact or no intrusion | more |
| V1324 — Intrusion 02 Injury Number | 00 | No injury or no intrusion | more |

| | | | |
|--|-------|----------------------------|----------------------|
| V1325 — Intrusion Number 03 | 03 | Intrusion #3 | more |
| V1326 — Intrusion 03 Occupant Space Number | 11 | First row, Left seat | more |
| V1327 — Intrusion 03 Intruding Object | 09 | Door panel or side panel | more |
| V1328 — Intrusion 03 Assoc Event Number | 1 | Event #1 | more |
| V1329 — Intrusion 03 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1330 — Intrusion 03 Max Intrusion Y-axis | 06 cm | — | — |
| V1331 — Intrusion 03 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1332 — Intrusion 03 Occupant Number | 00 | No contact or no intrusion | more |
| V1333 — Intrusion 03 Injury Number | 00 | No injury or no intrusion | more |
| V1334 — Intrusion 03 Occupant Number | 00 | No contact or no intrusion | more |
| V1335 — Intrusion 03 Injury Number | 00 | No injury or no intrusion | more |
| V1336 — Intrusion Number 04 | 04 | Intrusion #4 | more |
| V1337 — Intrusion 04 Occupant Space Number | 11 | First row, Left seat | more |
| V1338 — Intrusion 04 Intruding Object | 08 | A-pillar | more |
| V1339 — Intrusion 04 Assoc Event Number | 1 | Event #1 | more |
| V1340 — Intrusion 04 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1341 — Intrusion 04 Max Intrusion Y-axis | 02 cm | — | — |
| V1342 — Intrusion 04 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1343 — Intrusion 04 Occupant Number | 00 | No contact or no intrusion | more |
| V1344 — Intrusion 04 Injury Number | 00 | No injury or no intrusion | more |
| V1345 — Intrusion 04 Occupant Number | 00 | No contact or no intrusion | more |
| V1346 — Intrusion 04 Injury Number | 00 | No injury or no intrusion | more |
| V1347 — Intrusion Number 05 | 00 | No Intrusion, None | more |
| V1348 — Intrusion 05 Occupant Space Number | 00 | No Intrusion, None | more |
| V1349 — Intrusion 05 Intruding Object | 00 | No Intrusion, None | more |
| V1350 — Intrusion 05 Assoc Event Number | 0 | No Intrusion, None | more |
| V1351 — Intrusion 05 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1352 — Intrusion 05 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |

| | | | |
|--|-------|---|----------------------|
| V1353 — Intrusion 05 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1354 — Intrusion 05 Occupant Number | 00 | No contact or no intrusion | more |
| V1355 — Intrusion 05 Injury Number | 00 | No injury or no intrusion | more |
| V1356 — Intrusion 05 Occupant Number | 00 | No contact or no intrusion | more |
| V1357 — Intrusion 05 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1358 — Intrusion Number 06 | 00 | No Intrusion, None | more |
| V1359 — Intrusion 06 Occupant Space Number | 00 | No Intrusion, None | more |
| V1360 — Intrusion 06 Intruding Object | 00 | No Intrusion, None | more |
| V1361 — Intrusion 06 Assoc Event Number | 0 | No Intrusion, None | more |
| V1362 — Intrusion 06 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1363 — Intrusion 06 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1364 — Intrusion 06 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1365 — Intrusion 06 Occupant Number | 00 | No contact or no intrusion | more |
| V1366 — Intrusion 06 Injury Number | 00 | No injury or no intrusion | more |
| V1367 — Intrusion 06 Occupant Number | 00 | No contact or no intrusion | more |
| V1368 — Intrusion 06 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1369 — Intrusion Number 07 | 00 | No Intrusion, None | more |
| V1370 — Intrusion 07 Occupant Space Number | 00 | No Intrusion, None | more |
| V1371 — Intrusion 07 Intruding Object | 00 | No Intrusion, None | more |
| V1372 — Intrusion 07 Assoc Event Number | 0 | No Intrusion, None | more |
| V1373 — Intrusion 07 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1374 — Intrusion 07 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1375 — Intrusion 07 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1376 — Intrusion 07 Occupant Number | 00 | No contact or no intrusion | more |
| V1377 — Intrusion 07 Injury Number | 00 | No injury or no intrusion | more |
| V1378 — Intrusion 07 Occupant Number | 00 | No contact or no intrusion | more |
| V1379 — Intrusion 07 Injury Number | 99 | Contact, injury unknown or data not collected | more |

| | | | |
|--|-------|---|----------------------|
| V1380 — Intrusion Number 08 | 00 | No Intrusion, None | more |
| V1381 — Intrusion 08 Occupant Space Number | 00 | No Intrusion, None | more |
| V1382 — Intrusion 08 Intruding Object | 00 | No Intrusion, None | more |
| V1383 — Intrusion 08 Assoc Event Number | 0 | No Intrusion, None | more |
| V1384 — Intrusion 08 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1385 — Intrusion 08 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1386 — Intrusion 08 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1387 — Intrusion 08 Occupant Number | 00 | No contact or no intrusion | more |
| V1388 — Intrusion 08 Injury Number | 00 | No injury or no intrusion | more |
| V1389 — Intrusion 08 Occupant Number | 00 | No contact or no intrusion | more |
| V1390 — Intrusion 08 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1391 — Intrusion Number 09 | 00 | No Intrusion, None | more |
| V1392 — Intrusion 09 Occupant Space Number | 00 | No Intrusion, None | more |
| V1393 — Intrusion 09 Intruding Object | 00 | No Intrusion, None | more |
| V1394 — Intrusion 09 Assoc Event Number | 0 | No Intrusion, None | more |
| V1395 — Intrusion 09 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |
| V1396 — Intrusion 09 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1397 — Intrusion 09 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1398 — Intrusion 09 Occupant Number | 00 | No contact or no intrusion | more |
| V1399 — Intrusion 09 Injury Number | 00 | No injury or no intrusion | more |
| V1400 — Intrusion 09 Occupant Number | 00 | No contact or no intrusion | more |
| V1401 — Intrusion 09 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1402 — Intrusion Number 10 | 00 | No Intrusion, None | more |
| V1403 — Intrusion 10 Occupant Space Number | 00 | No Intrusion, None | more |
| V1404 — Intrusion 10 Intruding Object | 00 | No Intrusion, None | more |
| V1405 — Intrusion 10 Assoc Event Number | 0 | No Intrusion, None | more |
| V1406 — Intrusion 10 Max Intrusion X-axis | 00 cm | 0 cm or No Intrusion | more |

| | | | |
|---|-------|---|----------------------|
| V1407 — Intrusion 10 Max Intrusion Y-axis | 00 cm | 0 cm or No Intrusion | more |
| V1408 — Intrusion 10 Max Intrusion Z-axis | 00 cm | 0 cm or No Intrusion | more |
| V1409 — Intrusion 10 Occupant Number | 00 | No contact or no intrusion | more |
| V1410 — Intrusion 10 Injury Number | 00 | No injury or no intrusion | more |
| V1411 — Intrusion 10 Occupant Number | 00 | No contact or no intrusion | more |
| V1412 — Intrusion 10 Injury Number | 99 | Contact, injury unknown or data not collected | more |
| V1413 — Door Intrusion Number 01 | 03 | — | — |
| V1414 — Door Intrusion Number 01 Cause | 1 | Direct impact | more |
| V1415 — Door Intrusion Number 02 | 88 | Not Applicable | more |
| V1416 — Door Intrusion Number 02 Cause | 8 | Not applicable | more |
| V1417 — Door Intrusion Number 03 | 88 | Not Applicable | more |
| V1418 — Door Intrusion Number 03 Cause | 8 | Not applicable | more |
| V1419 — Door Intrusion 01 Component | 88 | Not Applicable | more |
| V1420 — Door Intrusion 01 Component Damaged 1 | 8 | Not Applicable | more |
| V1421 — Door Intrusion 01 Component Damaged 2 | 8 | Not Applicable | more |
| V1422 — Door Intrusion 02 Component | 88 | Not Applicable | more |
| V1423 — Door Intrusion 02 Component Damaged 1 | 8 | Not Applicable | more |
| V1424 — Door Intrusion 02 Component Damaged 2 | 8 | Not Applicable | more |
| V1425 — Door Intrusion 03 Component | 88 | Not Applicable | more |
| V1426 — Door Intrusion 03 Component Damaged 1 | 8 | Not Applicable | more |
| V1427 — Door Intrusion 03 Component Damaged 2 | 8 | Not Applicable | more |
| V1428 — Door Intrusion 04 Component | 88 | Not Applicable | more |
| V1429 — Door Intrusion 04 Component Damaged 1 | 8 | Not Applicable | more |
| V1430 — Door Intrusion 04 Component Damaged 2 | 8 | Not Applicable | more |

Case Vehicle Airbag(s)

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|------------|------------------|----------------------|
| V1501 — Driver Airbag Equipped | 1 | Yes | more |
| V1502 — Driver Airbag Deployed | 1 | Yes | more |
| V1503 — Driver Airbag Condition | 0 | No Damage | more |
| V1504 — Passenger Airbag Equip | 1 | Yes | more |
| V1505 — Passenger Airbag Deployed | 1 | Yes | more |
| V1506 — Passenger Airbag Condition | 0 | No Damage | more |
| V1507 — Steering Wheel Airbag Tether | 1 | Yes | more |
| V1508 — Driver Airbag Marked By Contact | 0 | No | more |
| V1509 — Passenger Airbag Tether | 1 | Yes | more |
| V1510 — Passenger Airbag Marked By Contact | 0 | No | more |

Case Vehicle

Interior

| Variable Number and Name | Code Value | Code Description | Other Options |
|--------------------------------------|------------|-----------------------|----------------------|
| V1601 — Left Front Door Damaged | 4 | Yes, occupant contact | more |
| V1602 — Right Front Door Damaged | 0 | No | more |
| V1603 — Left Front Hardware Damaged | 1 | Yes | more |
| V1604 — Right Front Hardware Damaged | 0 | No | more |
| V1605 — Left Front Armrest Damaged | 1 | Yes | more |
| V1606 — Right Front Armrest Damaged | 0 | No | more |
| V1607 — Left Front Glass Damaged | 1 | Yes | more |
| V1608 — Right Front Glass Damaged | 0 | No | more |
| V1609 — Left Rear Door Area Damaged | 0 | No | more |
| V1610 — Right Rear Door Area Damaged | 0 | No | more |
| V1611 — Left Rear Hardware Damaged | 0 | No | more |
| V1612 — Right Rear Hardware Damaged | 0 | No | more |
| V1613 — Left Rear Armrest Damaged | 0 | No | more |
| V1614 — Right Rear Armrest Damaged | 0 | No | more |
| V1615 — Left Rear Glass Damaged | 0 | No | more |
| V1616 — Right Rear Glass Damaged | 0 | No | more |
| V1617 — Left Roof Side Rail Damaged | 0 | No | more |
| V1618 — Right Roof Side Rail Damaged | 0 | No | more |
| V1619 — Left B-pillar Damaged | 0 | No | more |
| V1620 — Right B-pillar Damaged | 0 | No | more |
| V1621 — Left C-pillar Damaged | 0 | No | more |
| V1622 — Right C-pillar Damaged | 0 | No | more |
| V1623 — Left D-pillar Damaged | 0 | No | more |
| V1624 — Right D-pillar Damaged | 0 | No | more |

| | | | |
|--|---|----------------|----------------------|
| V1625 — Left Headlining Damaged | 0 | No | more |
| V1626 — Right Headlining Damaged | 0 | No | more |
| V1627 — Left Roof Structure Damaged | 0 | No | more |
| V1628 — Right Roof Structure Damaged | 0 | No | more |
| V1629 — Left T/Sun Roof Damaged | 8 | Not applicable | more |
| V1630 — Right T/Sun Roof Damaged | 8 | Not applicable | more |
| V1631 — Other Left Side Item Damagd | 8 | Not applicable | more |
| V1632 — Other Right Side Item Damagd | 8 | Not applicable | more |
| V1633 — Foot Controls Damaged | 0 | No | more |
| V1634 — Ignition Key Damaged | 0 | No | more |
| V1635 — Rear View Mirror Damaged | 0 | No | more |
| V1636 — Sunvisor/Fitting Damaged | 0 | No | more |
| V1637 — Windshield Molding Damaged | 0 | No | more |
| V1638 — Left A-pillar Damaged | 1 | Yes | more |
| V1639 — Right A-pillar Damaged | 0 | No | more |
| V1640 — Center Console Damaged | 8 | Not applicable | more |
| V1641 — Transmission Lever Damaged | 0 | No | more |
| V1642 — Horn/Spoke Shroud Damagd | 0 | No | more |
| V1643 — Upper Panel Damaged | 1 | Yes | more |
| V1644 — Mid Panel Damaged | 0 | No | more |
| V1645 — Lower Panel Damaged | 0 | No | more |
| V1646 — Ashtray Damaged | 0 | No | more |
| V1647 — Control Knob/Lever Damaged | 0 | No | more |
| V1648 — Glove Compartment Area Damaged | 0 | No | more |
| V1649 — Instruments Damaged | 0 | No | more |
| V1650 — Park Brake Release Damaged | 0 | No | more |
| V1651 — Park Brake Pedal Damaged | 1 | Yes | more |
| V1652 — A/C Or Upper Vent Damaged | 0 | No | more |
| V1653 — Heater Or A/C Duct Damaged | 0 | No | more |
| V1654 — Radio Damaged | 0 | No | more |

| | | | |
|------------------------------------|---|----------------|----------------------|
| V1655 — Other Item Damaged | 8 | Not applicable | more |
| V1656 — Rear Window Damaged | 0 | No | more |
| V1657 — Rear Window Header Damaged | 0 | No | more |
| V1658 — Vertical Console Damaged | 0 | No | more |
| V1659 — Roof Console Damaged | 0 | No | more |

Case Vehicle

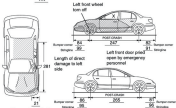
Seats

| Variable Number and Name | Code Value | Code Description | Other Options |
|--|------------|------------------|----------------------|
| V1701 — Driver Front Seat Type | 05 | Bucket | more |
| V1702 — Passenger Front Seat Type | 05 | Bucket | more |
| V1703 — Driver Seat Mount Type | 2 | Pedestal | more |
| V1704 — Passenger Seat Mount Type | 2 | Pedestal | more |
| V1705 — Driver Swivel Mechanism Equipped | 0 | No | more |
| V1706 — Passenger Swivel Mechanism Equipped | 0 | No | more |
| V1707 — Driver Seat Original Equipment | 1 | Yes | more |
| V1708 — Passenger Seat Original Equipment | 1 | Yes | more |
| V1709 — Driver Seat/Rear Occupant Contact | 8 | Not applicable | more |
| V1710 — Passenger Seat/Rear Occupant Contact | 8 | Not applicable | more |
| V1711 — Driver Seat Damage | 0 | None | more |
| V1712 — Passenger Seat Damage | 0 | None | more |
| V1713 — Center Front Armrest Damaged | 0 | No | more |
| V1714 — Driver Seat Rotation | 0 | None apparent | more |
| V1715 — Passenger Seat Rotation | 0 | None apparent | more |
| V1716 — Driver Seat-back Type | 3 | Reclining | more |
| V1717 — Passenger Seat-back Type | 3 | Reclining | more |
| V1718 — Driver Seat-back Lock Type | 3 | Power | more |
| V1719 — Passenger Seat-back Lock Type | 3 | Power | more |
| V1720 — Driver Seat-back Lock Held | 1 | Yes | more |
| V1721 — Passenger Seat-back Lock Held | 1 | Yes | more |
| V1722 — Driver Recliner Mechanism Held | 1 | Yes | more |
| V1723 — Passenger Recliner Mechanism | 1 | Yes | more |

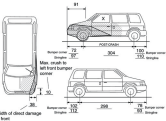
| | | | |
|---|---|-----------------|----------------------|
| Held | | | |
| V1724 — Driver Head Restraint Type | 1 | Adjustable | more |
| V1725 — Passenger Head Restraint Type | 1 | Adjustable | more |
| V1726 — Driver Head Rest Removed | 0 | No | more |
| V1727 — Passenger Head Rest Removed | 0 | No | more |
| V1728 — Driver Head Rest Adjustment | 2 | Down | more |
| V1729 — Passenger Head Rest Adjustment | 2 | Down | more |
| V1730 — Driver Head Rest Damage | 0 | None | more |
| V1731 — Passenger Head Rest Damage | 0 | None | more |
| V1732 — Driver Seat Adjustment Type | 2 | Power | more |
| V1733 — Passenger Seat Adjustment Type | 2 | Power | more |
| V1734 — Driver Seat Adjustment Provided | 3 | 6-way | more |
| V1735 — Passenger Seat Adjustment Provided | 3 | 6-way | more |
| V1736 — Driver Seat Adjuster Damage | 0 | None | more |
| V1737 — Passenger Seat Adjuster Damage | 0 | None | more |
| V1738 — Driver Seat Adjuster Separation | 8 | Not applicable | more |
| V1739 — Passenger Seat Adjuster Separation | 8 | Not applicable | more |
| V1740 — Driver Seat Pre-crash Position | 1 | Forward | more |
| V1741 — Passenger Seat Pre-crash Position | 3 | Rearward | more |
| V1742 — Left Rear Seat Type | 3 | Captain's Chair | more |
| V1743 — Right Rear Seat Type | 3 | Captain's Chair | more |
| V1744 — Left Rear Seat Damaged | 0 | None | more |
| V1745 — Right Rear Seat Damaged | 0 | None | more |
| V1746 — Center Rear Armrest Damaged | 0 | No | more |
| V1747 — Left Rear Seat-back Left Lock Equipped | 1 | Yes | more |
| V1748 — Right Rear Seat-back Left Lock Equipped | 0 | No | more |
| V1749 — Left Rear Seat-back Left Lock Held | 1 | Yes | more |

| | | | |
|--|---|----------------|----------------------|
| V1750 — Right Rear Seat-back Left Lock Held | 8 | Not applicable | more |
| V1751 — Left Rear Seat-back Right Lock Equipped | 0 | No | more |
| V1752 — Right Rear Seat-back Right Lock Equipped | 1 | Yes | more |
| V1753 — Left Rear Seat-back Right Lock Held | 8 | Not applicable | more |
| V1754 — Right Rear Seat-back Right Lock Held | 1 | Yes | more |
| V1755 — Left 3rd Seat Equipped | 1 | Yes | more |
| V1756 — Right 3rd Seat Equipped | 1 | Yes | more |
| V1757 — Left 3rd Seat Backrest Damaged | 0 | No | more |
| V1758 — Right 3rd Seat Backrest Damaged | 0 | No | more |
| V1759 — Left 3rd Seat Cushion Damaged | 0 | No | more |
| V1760 — Right 3rd Seat Cushion Damaged | 0 | No | more |
| V1761 — Rear Head Restraints | 1 | Equipped | more |

MEASUREMENTS IN CENTIMETERS



RELACEMENT PLUS (CONTINUED)



WINDSHIELD MARK ON CASE VEHICLE:



SAFEGUARD
DOT-21 CC M54 AS1
HS



Windshield cracked due to bowl contact

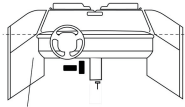
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

| Location of Intrusion | Intruded Component | (All Measurements Are in Centimeters) | | | | | Dominant Crush Direction |
|-----------------------|--------------------|---------------------------------------|---|----------------|---|-----------|--------------------------|
| | | Comparison Value | – | Intruded Value | = | Intrusion | |
| 11 | Lower A-pillar | 59 | – | 52 | = | 7 | Y |
| 11 | Kick panel | 59 | – | 52 | = | 7 | Y |
| 11 | Upper A-pillar | 62 | – | 60 | = | 2 | Y |
| 11 | Door panel | 68 | | 62 | | 6 | Y |
| | | | | | | | |
| | | | | | | | |
| | | | – | | = | | |
| | | | – | | = | | |

OCCUPANT CONTACT WORKSHEET

| Contact | Interior Component Contacted | Occupant No. if Known | Body Region if Known | Supporting Physical Evidence | Confidence Level of Contact Point |
|---------|------------------------------|-----------------------|----------------------|------------------------------|-----------------------------------|
| A | Lt. front door panel | Dr | Lt. leg | Bowed outward | 1 |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |
| H | | | | | |
| I | | | | | |
| J | | | | | |
| K | | | | | |



A = driver door,
dented

Driver Airbag



Driver Airbag Cover



Number of (6)

If yes, Enter quantity: _____

Thickness of (7) 60

If yes, Enter quantity: _____

Passenger Airbag



Notes: 1



If you know more: _____

Notes: 2



If you know more: _____

Passenger Airbag Base



Case # 284: Occupant # 1; Injury # 1

| Variable Number and Name | Code Value | Code Description | Other Options |
|-----------------------------------|------------|---|----------------------|
| V2101 — Injury Number | 01 | Injury #1 | more |
| V2102 — 1st Prob Contact Area | 87 | Air cushion skin "airbag" | more |
| V2103 — 2nd Prob Contact Area | 52 | Internal flying glass (from any source) | more |
| V2104 — Primary OIC -body Region | 06 | Face | more |
| V2105 — Primary OIC -aspect | 23 | Whole region | more |
| V2106 — Primary OIC -lesion | 01 | Abrasion | more |
| V2107 — Primary OIC -system/Organ | 09 | Integumentary | more |
| V2108 — Primary OIC -severity | 1 | Minor | more |
| V2109 — Primary OIC | FWAI1 | — | — |
| V2110 — Assoc OIC 1 -body Region | 99 | No injury | more |
| V2111 — Assoc OIC 1 -aspect | 99 | No injury | more |
| V2112 — Assoc OIC 1 -lesion | 99 | No injury | more |
| V2113 — Assoc OIC 1 -system/Organ | 99 | No injury | more |
| V2114 — Assoc OIC 1 -severity | 9 | Unknown | more |
| V2115 — Assoc OIC 1 | — | — | — |

Case # 284: Occupant # 1; Injury # 2

| Variable Number and Name | Code Value | Code Description | Other Options |
|-----------------------------------|------------|---|----------------------|
| V2101 — Injury Number | 02 | Injury #2 | more |
| V2102 — 1st Prob Contact Area | 87 | Air cushion skin "airbag" | more |
| V2103 — 2nd Prob Contact Area | 52 | Internal flying glass (from any source) | more |
| V2104 — Primary OIC -body Region | 06 | Face | more |
| V2105 — Primary OIC -aspect | 23 | Whole region | more |
| V2106 — Primary OIC -lesion | 03 | Contusion | more |
| V2107 — Primary OIC -system/Organ | 09 | Integumentary | more |
| V2108 — Primary OIC -severity | 1 | Minor | more |
| V2109 — Primary OIC | FWCI1 | — | — |
| V2110 — Assoc OIC 1 -body Region | 99 | No injury | more |
| V2111 — Assoc OIC 1 -aspect | 99 | No injury | more |
| V2112 — Assoc OIC 1 -lesion | 99 | No injury | more |
| V2113 — Assoc OIC 1 -system/Organ | 99 | No injury | more |
| V2114 — Assoc OIC 1 -severity | 9 | Unknown | more |
| V2115 — Assoc OIC 1 | — | — | — |

Case # 284: Occupant # 1; Injury # 3

| Variable Number and Name | Code Value | Code Description | Other Options |
|-----------------------------------|------------|---------------------------|----------------------|
| V2101 — Injury Number | 03 | Injury #3 | more |
| V2102 — 1st Prob Contact Area | 56 | Lower instrument panel | more |
| V2103 — 2nd Prob Contact Area | 00 | No Contact/not applicable | more |
| V2104 — Primary OIC -body Region | 11 | Knee | more |
| V2105 — Primary OIC -aspect | 12 | Left | more |
| V2106 — Primary OIC -lesion | 03 | Contusion | more |
| V2107 — Primary OIC -system/Organ | 09 | Integumentary | more |
| V2108 — Primary OIC -severity | 1 | Minor | more |
| V2109 — Primary OIC | KLCI1 | — | — |
| V2110 — Assoc OIC 1 -body Region | 99 | No injury | more |
| V2111 — Assoc OIC 1 -aspect | 99 | No injury | more |
| V2112 — Assoc OIC 1 -lesion | 99 | No injury | more |
| V2113 — Assoc OIC 1 -system/Organ | 99 | No injury | more |
| V2114 — Assoc OIC 1 -severity | 9 | Unknown | more |
| V2115 — Assoc OIC 1 | — | — | — |

Case # 284: Occupant # 1

| Variable Number and Name | Code Value | Code Description | Other Options |
|--------------------------------------|------------|---------------------------------------|----------------------|
| V2001 — Occupant Number | 01 | Occupant #1 | more |
| V2002 — Occupant Role At 1st Impact | 1 | Motor vehicle driver | more |
| V2003 — Occupant Position -row | 1 | 1st row | more |
| V2004 — Occupant Position -lateral | 1 | Left | more |
| V2005 — Occupant Position -posture | 10 | Sitting on seat | more |
| V2006 — Occupant Age In Years | 16 | — | — |
| V2007 — Occupant Age In Months | 25 | 25 months or older | more |
| V2008 — Occupant Mass | 050 kg | — | — |
| V2009 — Occupant Height | 170 cm | — | — |
| V2010 — Occupant Sex | 2 | Female | more |
| V2011 — Occupant Treatment/Mortality | 01 | First aid at scene | more |
| V2012 — Injury Severity Score | 01 | ISS 1 | more |
| V2013 — Non-impact Med Condition | 0 | None | more |
| V2014 — Police Injury Severity | 2 | B - Non-incapacitating Injury | more |
| V2015 — Active Restraint System | 3 | Both lap belt and shoulder harness | more |
| V2016 — Active Restraint Usage | 3 | Both lap belt and shoulder harness | more |
| V2017 — Passive Restraint System | 1 | Air bag installed | more |
| V2018 — Passive Restraint Usage | 2 | Air bag deployed | more |
| V2019 — Child Seat Type | 88 | Not applicable (adult or older child) | more |
| V2020 — Occupant Ejection Degree | 0 | None | more |
| V2021 — Occupant Ejection Area | 98 | Not applicable (not ejected) | more |

| | | | |
|----------------------------------|---|-----------|----------------------|
| V2022 — Highest OIC Severity | 1 | Minor | more |
| V2023 — Head Restraint Available | 1 | Equipped | more |
| V2024 — Occupant Eyewear | 0 | None | more |
| V2025 — Source of Occupant Info | 0 | Interview | more |





4200671

X

6/18

R3







A11
107511
XK4-
216423











4200671

X

6/18

R

PMS



















4200671
X

6/18

R

PWS









































WARNING
DO NOT REMOVE THIS LABEL
UNTIL THE VEHICLE IS
REPAIRED











WARNING
DO NOT LEAVE
CHILDREN OR
PETS UNATTENDED
IN THE VEHICLE



WARNING
DO NOT REMOVE
THIS LABEL FROM THE
DASHBOARD

219













